

Application No. 10/681,051

Attorney Docket No. AOL0108

Status of the Claims

1. (Currently Amended) A process implemented across a network for providing a link to a preferred network server corresponding to a preferred mirror instance
5 within a plurality of network servers corresponding to a plurality of mirror instances of a content store, comprising the steps of:

providing a server application at a selected web server, and a client application at a client terminal, the selected server comprising a server other than a server corresponding to the content store and the network servers
10 corresponding to the mirror instances, wherein the client terminal is connected to the selected web server by a first connection, wherein the client terminal is connected to the network through the selected web server, and wherein the server application and the client application are integrated to provide localization decisions invisibly to a user, and to provide links to localized content from the
15 server application to the client application;

determining localization information for each mirrored instance of the content store ~~to each network server from which users connect~~, wherein the localization information comprises the number of hops and latency from each mirrored instance of the content store to any of the selected web server and the
20 client terminal ~~each of the network servers~~;

storing the determined localization information in a localization database;

~~receiving~~ sending a request ~~at the~~ to the selected web server over the first connection from a user at the client terminal, the request comprising a link to mirrored content;

25 querying the localization database and applying a set of rules to the stored localization information through the server application at the selected web server to determine a preferred mirror instance for the client terminal, the rules comprising a function of the stored hop information and the stored latency information between each of the mirror instances and the client terminal;

30 dynamically generating a localized link to the determined preferred mirror instance through the server application at the selected web server; and

transmitting the localized link from the selected web server to the client terminal.

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2. (Previously Presented) The process of Claim 1, further comprising the step of:

5 automatically directing the user to the local mirror instance when the user selects the localized link.

3. (Previously Presented) The process of Claim 1, wherein the function of the stored hop information and the stored latency information between each of the mirror instances and the client terminal comprises a determination of a mirror
10 instance having the lowest number of hops.

4. (Previously Presented) The process of Claim 1, wherein the function of the stored hop information and the stored latency information between each of the mirror instances and the client terminal comprises a determination of one or more
15 mirror instances having the lowest number of hops, and in the case of a tie, the preferred mirror instance additionally comprises the lowest latency.

5. (Previously Presented) The process of Claim 1, wherein the localization information further comprises a transmission cost for each mirrored instance of
20 the content store to each network from which users connect.

6. (Previously Presented) The process of Claim 1, wherein the localization information further comprises mirror server load information.

25 7. (Previously Presented) The process of Claim 1, wherein the localization information further comprises mirror server operation information.

8. (Previously Presented) The process of Claim 1, wherein the localization information further comprises cost information.
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9. (Previously Presented) The process of Claim 1, wherein the localization information further comprises network segment information.

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10. (Currently Amended) The process of Claim 1, wherein the ~~localization information is stored in a database~~ selected web server is associated with a service provider.

5 11. (Currently Amended) The process of Claim 1, wherein the localization information is stored at the selected web server.

12. (Original) The process of Claim 1, wherein the request comprises a web page.

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13. (Previously Presented) The process of Claim 1, wherein the localized link is included within a webpage, and wherein the webpage is transmitted to the client terminal.

15 14. (Previously Presented) The process of Claim 1, wherein the preferred mirror is further determined from the request IP address of the client terminal.

15. (Previously Presented) The process of Claim 1, wherein the preferred mirror is further determined from the request IP network of the user.

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16. (Original) The process of Claim 1, wherein the localized link comprises an HTTP link.

25 17. (Currently Amended) A process implemented across a network for providing a link to a preferred network server corresponding to a preferred mirror instance within a plurality of network servers corresponding to a plurality of mirror instances of a content store, comprising the steps of:

30 providing a server application at a selected web server server, and a client application at a client terminal having a unique address, the selected server comprising a server other than a server corresponding to the content store and the network servers corresponding to the mirror instances, wherein the client terminal is connected to the selected web server by a first connection, wherein the client terminal is connected to the network through the selected web server, and
35 wherein the server application and the client application are integrated to provide localization decisions invisibly to a client user, and to provide links to localized

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localized content from the server application to the client application;

determining localization information for each mirrored instance of the content store ~~to each network server from which users connect~~, wherein the localization information comprises the number of hops and latency from each mirrored instance of the content store to any of the selected web server and the client terminal ~~to each network server from which client users connect~~;

storing the determined localization information in a localization database;

~~receiving~~ sending a request ~~a the~~ to the selected web server over the first connection from the client terminal, the request comprising a link to the content store;

querying the localization database and applying a set of rules to the stored localization information through the server application at the selected web server to determine a preferred mirror instance for the client terminal, the rules comprising a function of the stored hop information and the stored latency information between each of the mirror instances and the unique address;

dynamically generating a localized link to the determined preferred mirror instance through the server application at the selected web server; and

transmitting the localized link from the selected web server to the client terminal.

18. (Previously Presented) The process of Claim 17, further comprising the step of:

automatically directing the client user at the client terminal to the preferred mirror when the client user selects the localized link.

19. (Previously Presented) The process of Claim 17, wherein the function of the stored hop information and the stored latency information between each of the mirror instances and the client terminal comprises a determination of a mirror instance having the lowest number of hops.

20. (Previously Presented) The process of Claim 17, wherein the function of the stored hop information and the stored latency information between each of the mirror instances and the client terminal comprises a determination of one or more

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more mirror instances having the lowest number of hops, and in the case of a tie, the preferred mirror instance additionally comprises the lowest latency.

5 21. (Previously Presented) The process of Claim 17, wherein the localization information further comprises a transmission cost for each mirrored instance of the content store to each network from which users connect.

10 22. (Previously Presented) The process of Claim 17, wherein the localization information further comprises mirror server load information.

23. (Previously Presented) The process of Claim 17, wherein the localization information further comprises mirror server operation information.

15 24. (Previously Presented) The process of Claim 17, wherein the localization information further comprises cost information.

25. (Previously Presented) The process of Claim 17, wherein the localization information further comprises network segment information.

20 26. (Currently Amended) The process of Claim 17, wherein the localization ~~information is stored in a database~~ selected web server is associated with a service provider.

25 27. (Currently Amended) The process of Claim 17, wherein the localization information is stored at the selected web server.

28. (Original) The process of Claim 17, wherein the request comprises a web page.

30 29. (Original) The process of Claim 17, wherein the localized link is included within a webpage, and wherein the webpage is transmitted to the user.

35 30. (Previously Presented) The process of Claim 17, wherein the preferred mirror instance is further determined from a request IP network of the user.

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31. (Currently Amended) A proximity resource allocation system implemented across a network for providing a link ~~from any to a preferred~~ network server within a plurality of network servers corresponding to a plurality of mirror instances of a content store from which a user terminal having a unique address is connectable to the ~~connects to a preferred network server mirror within a plurality of mirrors comprising a content store,~~ comprising:

5 a server application at a selected web server that is integrated with a client application at the user terminal, the selected server comprising a server other than a server corresponding to the content store and the network servers
10 corresponding to the mirror instances, wherein the user terminal is connected to the selected web server by a first connection, wherein the user terminal is connected to the network through the selected web server, the server application to provide localization decisions invisibly to a user, and to provide links to localized content from the server application to the client application; and

15 a localization database comprising storage of localization information for each mirror of the content store ~~to each of the network servers~~, wherein the localization information comprises the number of hops and latency from each of the plurality mirrors to any of the selected web server and the user terminal ~~each of the network servers;~~

20 the server application for receiving a request ~~at sent to the selected~~ web server over the first connection from the user terminal, the request comprising a link to the content store, for querying the localization database and applying a set of rules to the stored localization information through the server application at the selected web server to determine a preferred mirror for the user terminal, wherein
25 the determination is invisible to the user, the rules comprising a function of the stored hop information and the stored latency information between each of the mirrors and the unique address, for dynamically generating a localized link to the determined preferred mirror through the server application at the selected web server, and for transmitting the localized link from the selected web server to the
30 user terminal.

32. (Original) The system of Claim 31, further comprising:

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means to direct the user terminal to the preferred mirror upon a selection of the localized link.

5 33. (Previously Presented) The system of Claim 31, wherein the function of the stored hop information and the stored latency information between each of the mirror instances and the client terminal comprises a determination of a mirror instance having the lowest number of hops.

10 34. (Previously Presented) The system of Claim 31, wherein the function of the stored hop information and the stored latency information between each of the mirror instances and the client terminal comprises a determination of one or more mirror instances having the lowest number of hops, and in the case of a tie, the preferred mirror instance additionally comprises the lowest latency.

15 35. (Original) The system of Claim 31, wherein the unique address comprises a terminal IP address.

20 36. (Previously Presented) The system of Claim 31, wherein the localization information further comprises mirror server load information.

37. (Previously Presented) The system of Claim 31, wherein the localization information further comprises mirror server operation status information.

25 38. (Previously Presented) The system of Claim 31, wherein the localization information further comprises cost information.

39. (Previously Presented) The system of Claim 31, wherein the localization information further comprises network segment information.

30 40. (Previously Presented) The system of Claim 31, wherein the localization information comprises a map of all IP address space within a global routing table.

35 41. (Previously Presented) The system of Claim 31, wherein the localization information further comprises triangulation tests and performance tests of the networks.

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42. (Original) The system of Claim 31, wherein the request comprises a web page.

- 5 43. (Original) The system of Claim 31, wherein the localized link is included within a webpage, and wherein the webpage is transmitted to the user.